

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF CLAIMS:

1-6 (canceled)

7. (new) Hinge device used to join leaf (2) of a door (1) to frame (3) thereof, including:

- at least one connecting rod (4, 5) which is mounted to rotate in relation to the frame and in relation to leaf (2).
- a carriage (7) which is mounted to move in translation widthwise in a guide (14) which is solidly connected to frame (3), and in rotation relative to the door leaf (2), carriage (7) has multiple wheels (9) the axis of rotation of which is oriented horizontally and applies on guide (14),

characterized in that

It comprises at least one rolling member between carriage (7) and lateral wall (15) of guide (14).

8. (new) Device according to claim 7,

characterized in that

the rolling member is a wheel (10) fitted to pivot on carriage (7) and capable of coming into contact with lateral wall (15) of guide (14).

9. (new) Device according to claim 8,

characterized in that

Wheel (10) is assembled to pivot on the same axis (8) as the rotational axis of carriage (7) in relation to leaf (2).

10. (new) Device according to claim 7,  
characterized in that

it includes a support structure (16) that can be  
solidly joined to frame (3) of door (11), this structure (16)  
including means for adjusting its height.

11. (new) Device according to claim 7,  
characterized in that

it includes two connecting rods (4, 5), one located in the  
upper part of the leaf, the other in the lower part.

12. (new) Door (1),

characterized in that

it is equipped with at least one device according to claim 7.

13. (new) Device according to claim 8,  
characterized in that

it includes a support structure (16) that can be  
solidly joined to frame (3) of door (11), this structure (16)  
including means for adjusting its height.

14. (new) Device according to claim 9,  
characterized in that

it includes a support structure (16) that can be  
solidly joined to frame (3) of door (11), this structure (16)  
including means for adjusting its height.

15. (new) Device according to claim 8,  
characterized in that

it includes two connecting rods (4, 5), one located in the  
upper part of the leaf, the other in the lower part.

16. (new) Device according to claim 9,  
characterized in that

it includes two connecting rods (4, 5), one located in the upper part of the leaf, the other in the lower part.

17. (new) Device according to claim 10,  
characterized in that

it includes two connecting rods (4, 5), one located in the upper part of the leaf, the other in the lower part.

18. (new) Door (1),

characterized in that

it is equipped with at least one device according to claim 8.

19. (new) Door (1),

characterized in that

it is equipped with at least one device according to claim 9.

20. (new) Door (1),

characterized in that

it is equipped with at least one device according to claim 10.

21. Door (1),

characterized in that

it is equipped with at least one device according to claim 11.